



## Smart Control & Monitoring

- · Smart load control with dry contacts
- · Smart home integration with multi-protocol communications



## Superb Safety & Reliability

- · Optional AFCI on DC side1
- · Remote Shutdown



## Friendly & Thoughtful Design

- · Plug & Play
- · Elegant and compact design



## Flexible & Adaptable Applications

- · Maximum 16A DC input current per string and high-power module compatibility
- · Strong backup power supply



Technical Data	GW3000-ES-20	GW3600-ES-20	GW3600M-ES-2	0 GW5000-ES-20 (	GW5000M-ES-	20 GW6000-ES-20 G	W6000M
Battery Input Data							
Battery Type <sup>*1</sup>				Li-Ion			
Nominal Battery Voltage (V)				48			
Battery Voltage Range (V)				40 ~ 60			
Max. Continuous Charging Current (A)*1	60	75	60	120	60	120	60
Max. Continuous Discharging Current (A)*1	60 3000	75	3000	120	60 3000	120	60
Max. Charging Power (W) <sup>1</sup> Max. Discharging Power (W)	3200	3600 3900	3200	5000 5300	3200	6000 6300	300
PV String Input Data	0200		0200	0000	0200		OLO
<b>J</b>   1   1   1   1   1   1   1   1   1	4500	5.400	5.100	7500	7500	2000	
Max. Input Power (W) <sup>2</sup> Max. Input Voltage (V)	4500	5400	5400	7500 600	7500	9000	900
MPPT Operating Voltage Range (V)	-			60 ~ 550			
Start-up Voltage (V)				58			
Nominal Input Voltage (V)				360			
Max. Input Current per MPPT (A)				16			
Max. Short Circuit Current per MPPT (A) Number of MPP Trackers	1	2	2	23 2	2	2	2
Number of Strings per MPPT	I			1			
AC Output Data (On-grid)				*3	*3		
Nominal Apparent Power Output to Utility Grid (VA)	3000	3680	3680	5000 <sup>*3</sup>	5000 <sup>*3</sup>	6000 <sup>*3</sup>	6000
Max. Apparent Power Output to Utility Grid (VA) Max. Apparent Power from Utility Grid (VA)	3000 6000	3680 7360	3680 3680	10000	5000	10000	6000
Nominal Output Voltage (V)	0000	7 300	5000	220 / 230 / 240	3000	10000	000
Output Voltage Range (V)				170 ~ 280			
Nominal AC Grid Frequency (Hz)				50 / 60			
Max. AC Current Output to Utility Grid (A)	13.6	16.7	16.7	22.7	22.7	27.3	27.0
Max. AC Current From Utility Grid (A) Nominal Output Current (A)	27.3 13.0	33.5 16.0	16.7 16.0	43.5 21.7	22.7 21.7	43.5 26.1	27.3
Power Factor	13.0	10.0		le from 0.8 leading t			20.
Max. Total Harmonic Distortion			· i (/idjustab	<3%	o o.o laggii ig	/	
AC Output Data (Back-up)							
Back-up Nominal Apparent Power (VA)	3000	3680	3680	5000	5000	6000	600
Max. Output Apparent Power (VA)		3680 (7360@10sec)	3680	5000 (10000@10sec)	5000	6000 (10000@10sec)	600
Max. Output Current (A)	13.6	16.7	16.7	22.7	22.7	27.3	27.3
Nominal Output Voltage (V)				220 / 230 / 240			
Nominal Output Frequency (Hz) Output THDv (@Linear Load)				50 / 60 <3%			
Efficiency				1070			
Max. Efficiency				97.6%			
European Efficiency				96.7%			
Max. Battery to AC Efficiency				95.5%			
MPPT Efficiency				99.9%			
Protection							
PV String Current Monitoring				Integrated			
PV Insulation Resistance Detection				Integrated			
Residual Current Monitoring PV Reverse Polarity Protection				Integrated			
Anti-islanding Protection				Integrated Integrated			
AC Overcurrent Protection				Integrated			
AC Short Circuit Protection				Integrated			
AC Overvoltage Protection				Integrated			
DC Switch DC Surge Protection				Integrated Type II			
AC Surge Protection				Type III			
AFCI				Optional			
Remote Shutdown				Integrated			
General Data							
Operating Temperature Range (°C)				-25 ~ +60			
Relative Humidity				0 ~ 95%	\		
Max. Operating Altitude (m)			3	000 (>2000 Derating Natural Convection	<i>J</i> /		
Cooling Method Display				LED, WLAN + APP			
Communication with BMS				CAN			
Communication with Meter				RS485			
Communication with Portal				ViFi / WiFi + LAN / 4			
Weight (kg)	19.6	20.8	20.0	21.5	20.0	21.5	20.0
Dimension (W × H × D mm)			5	05.9 × 434.9 × 154 Non-isolated	ď		
Topology Self-consumption at Night (W)				<10			
Ingress Protection Rating				IP65			
Mounting Method				Wall Mounted			
Country of Manufacture				China			

<sup>\*1:</sup> The actual charge and discharge current / power also depends on the battery.
\*2: The max power is the actual power of PV.
\*3: 4600 for VDE-AR-N4105 & NRS 097-2-1.

<sup>\*:</sup> Please visit GoodWe website for the latest certificates.
\*: All pictures shown are for reference only. Actual appearance may vary.